

Abstract

The invention is directed to a device for sample introduction and for atomizing liquid samples for spectroscopic measurements, comprising a tubular furnace which has a flame-heated tube, and an arrangement for introducing a sample into the flame-heated tube. In a device of this type, a capillary is connected with the flame-heated tube via a sample inlet opening, and a pump is provided for delivering a liquid sample through the capillary, wherein the sample is partially or completely evaporated in the capillary acting as thermospray and flows into the tube in this state. In flame-atomic absorption spectrometry (flame AAS), this device results in a detection capacity that is appreciably improved over the prior art, wherein particular advantages result with respect to the handling of microsample quantities.

09331985-091901